

Eclipse Plugin Guide

Squore 19.0.17

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Table of Contents

Preface	, 1
Foreword	. 1
Licence	, 1
Warranty	, 1
Responsabilities	2
Contacting Vector Informatik GmbH Product Support	2
Getting the Latest Version of this Manual	2
1. Introduction	3
2. Introducing the Squore Eclipse Plugin	4
Squore Eclipse Plugin in the Squore ecosystem.	4
Who is the Squore Eclipse Plugin destined to?	5
3. Installing and setting up the Squore Eclipse Plugin	6
Installation Prerequisites	6
Supported Operating Systems	6
For All Systems	6
Packages for Windows	7
Packages for CentOS and Red Hat Enterprise Linux	7
Packages for Ubuntu	7
Packages for other Linux distributions	8
Squore Eclipse Plugin installation	8
Squore Eclipse Plugin setup	9
4. Getting Started With the Squore Eclipse Plugin1	0
Launching Your First Analysis	0
Visualising Analysis Results.	12
Exporting Analysis Results	15
Index	18

Preface

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Foreword

This edition of the Eclipse Plugin Guide was released by Vector Informatik GmbH.

It is part of the user documentation of the Squore software product edited and distributed by Vector Informatik GmbH.

If you are already familiar with Squore, you can navigate this manual by looking for what has changed since the previous version. New functionality is tagged with **(new in 19.0)** throughout this manual. A summary of the new features described in this manual is available in the entry *** What's New in Squore 19.0?** of this manual's **Index**.

For information on how to use and configure Squore, the full suite of manuals includes:

User Manual	Target Audience
Squore Installation Checklist	New users before their first installation
Squore Installation and Administration Guide	IT personnel and Squore administrators
Squore Getting Started Guide	End users, new users wanting to discover Squore features
Squore Command Line Interface	Continuous Integration Managers
Squore Configuration Guide	Squore configuration maintainers, Quality Assurance personnel
Squore Eclipse Plugin Guide	Eclipse IDE users
Squore Reference Manual	End Users, Squore configuration maintainers
Squore API Guide	End Users, Continuous Integration Managers
Squore Software Analytics Handbook	End Users, Quality Assurance personnel



You can also use the online help from any page when using the Squore web interface by clicking **? > Help**.

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consequential damages in connection with the furnishing, performance or use of this material.

This edition of the Eclipse Plugin Guide applies to Squore 19.0.17 and to all subsequent releases and modifications until otherwise indicated in new editions.

Responsabilities

Approval of this version of the document and any further updates are the responsibility of Vector Informatik GmbH.

Contacting Vector Informatik GmbH Product Support

If the information provided in this manual is erroneous or inaccurate, or if you encounter problems during your installation, contact Vector Informatik GmbH Product Support: https://support.squoring.com/

You will need a valid customer account to submit a support request. You can create an account on the support website if you do not have one already.

For any communication:

- support@squoring.com
- Vector Informatik GmbH Product Support

Squoring Technologies - 76, allées Jean Jaurès / 31000 Toulouse - FRANCE

Getting the Latest Version of this Manual

The version of this manual included in your Squore installation may have been updated. If you would like to check for updated user guides, consult the Vector Informatik GmbH documentation site to consult or download the latest Squore manuals at https://support.squoring.com/documentation/latest. Manuals are constantly updated and published as soon as they are available.

Chapter 1. Introduction

This document is the Eclipse Plugin Guide for Squore.

Its objective is to guide you through various aspects of the Squore Eclipse Plugin:

- Introducing the Squore Eclipse Plugin positions the Squore Eclipse Plugin inside the Squore ecosystem, explaining its main features.
- Installing and setting up the Squore Eclipse Plugin describes the steps to follow in order to install the Squore Eclipse Plugin.
- Getting Started With the Squore Eclipse Plugin walks you through the features provided by the Squore Eclipse Plugin.

Chapter 2. Introducing the Squore Eclipse Plugin

Squore Eclipse Plugin in the Squore ecosystem

Squore analyzes projects (in a broad sense) to provide high level indicators and produce personalised dashboards and tailored action lists for each kind of connected user. The whole process can be automated, and integrated in a continuous integration framework.

Information generated in this fashion can be refreshed with any desired rate, and the results will be available each time the Squore process concludes a new build. However, this scenario is best suited to a daily cycle at most, where all input files are the result of a daily commit, and results are generated along with the nightly build.

The Squore Eclipse Plugin is destined to operate at a faster rate, the objective being to deliver results during the development process, before files are committed and fed to the continuous integration process. Tightening the processing loop has several consequences for the Squore Eclipse Plugin behavior:

• It doesn't need to be connected to a central Squore server to rate a project, unless for project activation / licence validation purposes.

By limiting communication with the server to a minimum, we make sure projects can evolve outside the global rating cycle, but still offer the rating service.

Should the server be unreachable, rating service is still available for a whole week, before being deactivated. Once a connection is available again, and the credentials are validated, the rating capabilities are restored.

• It must be able to process and rate a project locally

The Squore Eclipse Plugin runs the Squan Sources static code analyser on the sources in your Eclipse project.

Note that no other data provider is run by the Squore Eclipse Plugin, so the overall rating of your project may vary from the one obtained when analysing the same for the same code base on Squore Server. Metrics and violations returned by Squan Sources will nevertheless be the same.

• It must use a configuration (in terms of Analysis Model and Data Providers) synchronised with the one installed on Squore Server

Since the Squore Eclipse Plugin uses a Squore rating module, it needs a rating environment, which must be synchronised with the server's, to ensure results equivalence.

The Squore Eclipse Plugin will perform such synchronisation during the product activation, which is a feature available in the Squore Eclipse Plugin preferences page.

• It must be able to manage projects using other languages than Java (e.g. C, C++, C# Ada)

The Squore Eclipse Plugin benefits from the Squore source code analyzer, which provides support for several languages (see Squore documentation for more details).

Analysis results will be available at folder and file level.

• It must be integrated into the Eclipse IDE, taking advantage of its extendability

The Eclipse plugin development framework offers a number of mechanisms to enhance various parts of the IDE. The added features have been designed to be both unobtrusive and informative.

• It must enhance a project's available information by displaying ratings, Action Items, Findings and highlights for each compatible object

The added information is assigned to each artefact, which means at project, file, module, class and function level. Each of these elements will have a rating, as well as a list of Action Items and Findings, depending on the model. A search view offering project artefacts sorted by rating is also available.

• It must be able to manage local versions, which are dissociated from the source code control versioning mechanism

One of the differences between the Squore Eclipse Plugin and Squore is that Squore Server uses a database to store the project builds across multiple versions, whereas the Squore Eclipse Plugin uses a local file storage mechanism, to maintain a local history.

This allows functions such as *DELTA_VALUE* or *PREVIOUS_VALUE* to work as expected, and produce trend analysis indicators.

Trends are based on the evolution of indicators between a baseline analysis and the last-rated analysis.

Who is the Squore Eclipse Plugin destined to?

As hinted by its name, the Squore Eclipse Plugin is a developer tool. Its objective is to provide users with enough information to help them:

- Process the generated list of Action Items
- Check the evolution of the source code rating as it is being produced
- Find what artefacts are responsible for a poor rating, and understand why
- Anticipate and address problems that will appear in the project's daily Squore server build before the code is referenced in a SCM system

As the Squore Eclipse Plugin seamlessly integrates Squan Sources results in the IDE, and uses the same model as the one on Squore Server, developers will gain visibility over the evaluation process, and improve their development practices to match the standard defined by the model.

The integrated rating feedback also gives the developer the opportunity to actively participate to the global effort on quality improvement.

Chapter 3. Installing and setting up the Squore Eclipse Plugin

Installation Prerequisites

Supported Operating Systems

The following is a list of the officially supported and tested operating systems:

- CentOS 6.7
- CentOS 7.3
- Ubuntu 18.04 LTS
- Windows 10
- Windows Server 2016



A 64-bit version of the OS is required

The following is a list of the operating systems that are not regularly tested but are known to be working:

- Red Hat Enterprise Linux 6
- Red Hat Enterprise Linux 7
- Fedora 29
- SuSe Linux 11.1
- Ubuntu Server 16.04
- Windows 7
- Windows 8
- Windows Server 2008 R2
- Windows Server 2012 R2

For All Systems

For a successful installation of Squore, you will need:

- The Oracle Java Runtime Environment version 8 (other versions are not supported)
- A supported Eclipse version (Luna SR2 and up)
- Valid credentials to log into a Squore Server
- At least 4 GB of space available on the disk for a full installation with demo projects
- At least 8 GB of RAM on the server machine
- At least 4 GB of RAM on the client machine

Keep in mind that the requirements above are the strict minimum. In production, Squore Server generally runs on a dedicated machine. A performant configuration is usually:

- 16 threads CPU.
- 64GB of RAM.
- SSD hard drives.

Squore reserves 25% of the available RAM of the machine to the database and another 25% to the server. External processes (like Checkstyle or FindBugs) running on the same machine as Squore may add to the amount of RAM required for analysing source code. Linux is known to offer better performances than Windows when running Squore. For a production database, you should plan a minimum of 20 GB of disk space.

Packages for Windows

A compatible version of Eclipse must be downloaded from http://www.eclipse.org/downloads/.

Packages for CentOS and Red Hat Enterprise Linux

On Red Hat Enterprise Linux and CentOS (6.5 and 7.1), the dependencies are satisfied by the following packages:

Mandatory packages:

- java-1.8.0-openjdk
- perl
- perl-Date-Calc
- perl-Digest-SHA
- perl-JSON
- perl-libwww-perl
- perl-Time-HiRes
- perl-XML-Parser
- fontconfig
- tcl
- A compatible installation of Eclipse downloaded from http://eclipse.org/downloads .

For more information about how to install the Extra Packages for Enterprise Linux (EPEL) repository, consult https://fedoraproject.org/wiki/EPEL.

Packages for Ubuntu

On Ubuntu 16.04.3 LTS, the dependencies are satisfied by the following packages:

Mandatory packages:

- libdate-calc-perl
- libhttp-message-perl
- libjson-perl
- libwww-perl
- libxml-parser-perl

- openjdk-8-jre
- perl
- tcl
- A compatible installation of Eclipse downloaded from http://eclipse.org/downloads

Packages for other Linux distributions

On Linux platforms, the following must be installed before installing Squore:

- **Perl** version 5.10.1 or greater including the following extra-modules:
 - Mandatory packages:
 - Date::Calc [module details]
 - Digest::SHA [module details]
 - HTTP::Request [module details]
 - JSON [module details]
 - LWP [module details]
 - LWP::UserAgent [module details]
 - Time::HiRes [module details]
 - XML::Parser [module details]



If some of these modules are not available as packages on your operating system, use your perl installation's cpan to install the modules. Using the OS packages is recommended, as it avoids having to reinstall via cpan after upgrading your version of perl.

- Tcl version 8.5 or greater,
- A supported Eclipse version (Luna SR2 and up)

Squore Eclipse Plugin installation

The Squore Eclipse Plugin complies with the Eclipse requirements, and is an OS-independent package to be deployed in the Eclipse plugins directory. Installation is done through an update site.



In order to launch analyses, the plugin needs to use an installation of perl and tclsh. If you are using a Windows operating system, the easiest way to install both dependencies is to install the Squore CLI package on your machine following the procedure outlined in the Command Line Interface manual.

- Create a new update site within Eclipse
 - Select Help > Install new software;.
 - Click on Available Software Sites;.
 - Add a new site;
 - Give it a name (for example: "Squore Eclipse Plugin");
 - Set the location to http://localhost:8180/SQuORE_Server/eclipse
- Go back to the **"Install"** window with the **"OK"** buttons;
- Select the newly created update site;
- Proceed with the plugin installation as with any Eclipse plugin.



- To speed-up installation procedure, it is possible to uncheck "Contact all update sites during install to find required software", as no external software is needed by the Squore Eclipse Plugin.
- Should the plugin fail to deploy, Eclipse will notify the user of the problem cause, and will start its operations as usual. If necessary, copy and send the generated Eclipse log to support@squoring.com.

Squore Eclipse Plugin setup

To use the Squore Eclipse Plugin, it must be activated, the server must be reachable with proper credentials, and rating preferences must be provided.

All these operations are accessible through the **Window > Preferences > Squore** page. Note that all provided information uses the Eclipse secure storage.

O Preferences						—		×
type filter text		Squore				¢	• =>	• •
 General Ant Cloud Foundry Code Recommenders Data Management Help 	^	General settings fo Environment cor Perl binary path: Tcl binary path:	_	erl\bin\perl.exe				
 Install/Update Java Java EE Java Persistence 		Server connectio Server url: Check Server	n http://localhost:818 Server is unreacheal					
 JavaScript JSON Maven Mylyn Oomph 		User connection User login: User password:	(optional) demo ******					
 > Plug-in Development > Remote Systems > Run/Debug > Server Squore 		Check User	Server is unreacheat	le. (Unsynchronised) Use	to retrieve enviror	nment fro	om the s	erver.
 Team Terminal Validation Web 	~				Restore <u>D</u> efa	aults	Appl	y
? 🖲					ОК		Cance	I

The Squore Eclipse Plugin preferences page

Fill in the paths to the perl and tclsh executables and the server details and click **Check Server** to ensure that your configuration is correct.

If you can successfully connect to the server, click **Import Configuration from Server** to synchronise your environment with the one from Squore Server.

When the synchronisation finishes, click **OK** to close the preferences window.

Chapter 4. Getting Started With the Squore Eclipse Plugin

Launching Your First Analysis

Once the Squore Eclipse Plugin is installed in Eclipse, obtaining a rating for your project is rather straightforward.

First locate the Squore contextual menu entry for the project you want to rate.

dilla:	Squore	>	Build
S	Refresh	F5	Build and Baseline
	Close Project		Clean
	Close Unrelated Projects		Build Automatically
	Assign Working Sets		Build Configuration

Contextual menu on an Eclipse project

Rating (or "building") a project with Square Eclipse Plugin can either be performed as a baseline build $% \left({{{\rm{S}}_{{\rm{B}}}} \right)$ or a draft build $% \left({{{\rm{S}}_{{\rm{B}}}} \right)$.

• When choosing baseline build, the project rating will produce a new reference version, with which all subsequent ratings will be compared to. This will affect rating computations based on metrics previous values, as well as all trends displayed in the Squore Eclipse Plugin views.

The baseline mode is useful when a stable state of the project has been reached, and a development phase is about to begin.

• When choosing draft build, the project is rated as usual, but the reference version is not modified. Each new draft build overwrites the previous analysis and displays trends and deltas relative to the last defined baseline.

The draft mode is useful during a development phase, when the project can undergo several back and forth changes, and the user wants to keep comparing the current version to the last stable one.

Before you can build a project, you first need to define its build configuration:

Squore Build Configuration (kaptcha)					
Load project parameters from:					
Wizard	~				
⊖ Server Project					
Кеу	Value				
	OK Cancel				

The Build Configuration screen

On the Build configuration screen, you can choose an analysis model for your project, or you can select the project on the server that corresponds to the code you are working on locally. By selecting an existing project, you can retrieve the project attributes from the server, and therefore run your local analysis in the same conditions as it is run on the server.

Squore Build (Configuration (kaptcha		×
Load project para	meters from:		
○ Wizard	ANALYTICS		
Server Project	kaptcha (software_an	alytics)	~
Кеу		Value	
APPLY_TO_BE_TE	STED	1.0	
COV_BRANCH_A		0.0	
COV_BRANCH_B		100.0	
COV_BRANCH_C		100.0	
COV_BRANCH_D		100.0	
COV_MCDC_A		0.0	
COV_MCDC_B		0.0	
COV_MCDC_C		0.0	
COV_MCDC_D		100.0	
COV_STAT_A		100.0	
COV_STAT_B		100.0	
COV_STAT_C		100.0	
COV_STAT_D		100.0	
LEVL_THRESHOLD		4.0	
PATH_THRESHOL	D	5.0	
		ОК	Cancel

Project options for the kaptcha project on the server

Click **OK** to close the configuration dialogue. You are now ready to start building your project using the draft or baseline submenu in the Squore Eclipse Plugin context menu.



With the Squore Eclipse Plugin, in addition to projects, you can build folders, subfolders and individual files as well. Go to the Squore contextual menu of the desired item (right click) and click build, just like a project.

Visualising Analysis Results

After your analysis completes, switch to the Squore perspective to view the results.



Click **Window > Perspective > Open Perspective > Other** and search for **Squore** in the list of available perspectives if you are using it for the first time.

The Squore perspective displays various views with information relative to the file or folder you click in the Project Explorer.

workspace peep. Square kapteba/e/i/-	oogle/code/kapteba/core/FishFunCimmu	iava Eclipso		– 🗆 X
workspace-neon - Squore - kaptcha/src/java/com/g		Java - Eclipse		~
<u>File Edit Source Refactor Navigate Search Pro</u>				
☆ + 🛛 🕞 🕫 🌽 💝 🖻 🔳 🗐 📮 🔅 +	O ▼ Q ▼ 🤔 🗁 🔗 ▼ 🗄 ▼		▼ Qui	ick Access 📄 📸 🙀 🏄
🏠 Project Explorer 🐹 🛛 🖻 🤹 🔍 🗖 🗖	DefaultNoise.java 🚺 FishEye	impy.java 🔀		
🗸 😂 kaptcha	1 package com.google.code	.kaptcha.core;		^
> ➡ JRE System Library [JavaSE-1.8]	2 3⊕ import java.awt.Color;			
V 🗁 src	8			
V 🗁 java	9⊖ /**			
✓	10 * {@link FishEyeGimpy} 11 */	adds fish eye e	ffect with vertical and h	orizontal lines.
v b code	🔺 12 public class FishEyeGim	oy implements Gi	mpyEngine	
✓ ➢ kaptcha	13 {			
V 🗁 core	14⊖ /** 15 * Applies distorti	on by adding fis	h eye effect and horizont	al vertical
DefaultBackground	16 * lines.			
🗾 DefaultKaptcha.java				
DefaultNoise.java	18 * @param baseImage 19 * @return the dist			
J FishEyeGimpy.java	20 */			
 NoNoise.java ShadowGimpy.java 		e getDistortedIm	age(BufferedImage baseIma	ge)
J WaterRipple.java	22 { 23			
> 🦢 impl	24 Graphics2D grap		<pre>baseImage.getGraphics();</pre>	
> 🦢 servlet	25 int improved	- bacaTrada dat	Unight().	>
> 🗁 text				
> 🗁 util	🏭 Squore Card 🔀 🏭 Action Items	ille Findings ille H	ighlights 📮 Console	
> 🗁 resources	FishEyeGimpy.java			
x checkstyle.xml x findbugs.xml	D			
x pmd.xml				^
	Measures/Indicators	Value		
	Line Counting	100		
	Line Count Source Lines Of Code	126	<u>i</u> i	
	Effective Lines Of Code	51	7	
	Executable Statements	42	1	
	Cyclomatic Complexity	12	7	
	-) stormatic compression			
	Complexity Distribution			
	Complexity Distribution Ratio of complex modules	8.3%	G	
		8.3%	C i	_
	Ratio of complex modules			_
	Ratio of complex modules Number of Modules	3	1	
	Ratio of complex modules Number of Modules Class Complexity Ratio	3 0.0%	<i>i</i> A	
<	Ratio of complex modules Number of Modules Class Complexity Ratio Number of Classes	3 0.0%	<i>i</i> A	Ţ

The Squore Perspective with the Squore Card, Action items, Findings and Highlights views in the bottom panel

Click a file or folder in the Project Explorer and use one of the following views in the bottom panel to understand your rating:

• The Squore Card view displays the overall rating for the current artefact, and its trend. It also lists the tables of interests for this artefact, as defined in the Analysis Model used to rate the project.

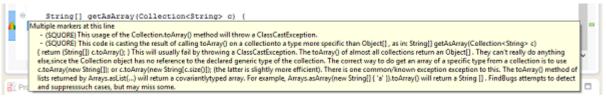
h Squore Card 🔀 🅼 Action Items	🥼 Findings 🏼 🏭 Hig	ghlights 🛛 📃 Console
ishEyeGimpy.java		
D		
Measures/Indicators	Value	
Line Counting		
Line Count	126	1
Source Lines Of Code	73	<i>i</i> .
Effective Lines Of Code	51	<i>i</i> .
Executable Statements	42	1
Cyclomatic Complexity	12	1
Complexity Distribution		
Ratio of complex modules	8.3%	С
Number of Modules	3	i
Class Complexity Ratio	0.0%	Α
Number of Classes	1	i
Coding Rules Compliance		
Rule Compliance	99.68%	А
Non Conformity Count	6 violations	i
Non Compliant Standards	2 rules	i
Coding Standards	618 rules	1
Issue Distribution		
Blocker Issues	0	1
Critical Issues	0	<i>i</i>
Major Issues	0	<i>i</i>
Minor Issues	6	1

The Squore card

• The Findings view lists the Findings for the current artefact as well as underlying artefacts, with their location and definition details. This list can be sorted, and allows navigation to artefacts associated to each finding by double-clicking on their name.

int $i = 0;$						
1 = 1 / 0;						
if (1 0)	£					
return i	12		(SQUORE) A function shall have a single point of exit at the end (see [MISR	A-C:200	14): RULE 14.7	<u>).</u>
}						
return i;						
)						
		Collection <string> c)</string>) (
return (Str:	ing[])	c.toArray();				
3						
<						2
Problems 🔍 Javadoc 😣 De	claratio	in 🖃 Progress 🔥 Finding:	s 💠 📥 Action Items 🛛 Task List			•
the second of the second secon						
it.java (Total: 3; New: 3)	Line	Bule	Practice	New	DP	
it.java (Total: 3; New: 3)		Rule Class Cast Exception With	Practice This usage of the Collection to Acray() method will throw a ClassCastException.	New	DP SQUORE	
t.java (Total: 3; New: 3) rtefact etAsArray(Collection <string>)</string>	21	Class Cast Exception With	This usage of the Collection.toArray() method will throw a ClassCastException.	true	SQUORE	
t.java (Total: 3; New: 3) rtefact etAsArray(Collection <string>)] etAsArray(Collection<string>)</string></string>	21 21	Class Cast Exception With BC: Impossible downcast	This usage of the Collection.toArray() method will throw a ClassCastException. This code is casting the result of calling toArray() on a collectionto a type more specifi	true true	SQUORE	
t.java (Total: 3; New: 3)	21 21	Class Cast Exception With	This usage of the Collection.toArray() method will throw a ClassCastException.	true	SQUORE	

A finding and its location in the source code



A finding full description

• The Action Items view works much like the Findings one, except it lists the Action Items computed by the Decision Model, and the reason why they have been generated.

rst.java (Total: 3)							
Artefact	Id	Name	Scope	Status	Reasons	Priority	
getAsArray(Collection <s< td=""><td>-351.0</td><td>Number of Blocker and critical rule increased</td><td>[Function]</td><td>OPEN</td><td>New artefact should be reviewed due to</td><td>High</td><td></td></s<>	-351.0	Number of Blocker and critical rule increased	[Function]	OPEN	New artefact should be reviewed due to	High	
getAsArray(Collection <s< td=""><td>-351.2</td><td>No 'Blocker' rules</td><td>[Function]</td><td>OPEN</td><td>'Blocker' rules (=1) detected in function.</td><td>High</td><td></td></s<>	-351.2	No 'Blocker' rules	[Function]	OPEN	'Blocker' rules (=1) detected in function.	High	
getAsArray(Collection <s< td=""><td>-3,-51,1</td><td>Number of high and major rule increased</td><td>[Function]</td><td>OPEN</td><td>New Artefact should be reviewed due to</td><td>Medi</td><td></td></s<>	-3,-51,1	Number of high and major rule increased	[Function]	OPEN	New Artefact should be reviewed due to	Medi	



The Highlights view works much like the Findings one, except it provides a list of the current project's Files, Classes or Functions, sorted by decreasing rating. Selecting the type of object to sort (File, Class or Function) is performed through the top-left menu icons.

🛃 Problems 🛛 @ Javadoc 😼 Decl	aration 🗉 Console 🕌 Highlights 🛛 🕌 Findings 👘
Test worst methods (Total: 171)	
Artefact	Line
doXMLFinding	C 310
endElement	C 570
getLocStr	C 58
startElement	C 549
CoreArtefact	B 76
addData	B 179
addDefectReports	B 115
addDefectReports	B 219
addDrLinksTestsDependencies	B 551
addInformation	B 489
addLocation	B 56
addLogicalFatherStr	B 482
addSon	B 428





Only the highlights created for the role **PLUGIN** are displayed in Eclipse. For more information about configuring highlights in your model, refer to the Configuration Guide.

Exporting Analysis Results

If you need to share your analysis results, it is possible to export the highlights as well as the squore card into a CSV file.

For example, go in the Highlights view, choose your highlight in the drop-down list and click export :

dik S	Squore Card	📥 Action Items	📥 Findings	📥 Highlights 🔀		Console
-------	-------------	----------------	------------	----------------	--	---------

src (Total: 14)

Technical Debt	~ Exp	ryt		
Artefact		Line	Own Technical Debt	Violations Dens

Artefact		Line	Own Technical Debt	Violations Dens	Block	Critic
src/common/ThreeCheckBoxPr	D	129	1 hour 10 minutes	8,922 Pts/KLoc	0	4
src/common/UnicodeReader.ja	C	74	27 minutes	9 Pts/KLoc	0	0
src/common/OptionalDontSho	B	119	45 minutes	5 Pts/KLoc	0	0
src/common/UnicodeReader.ja	B	64	11 minutes	50 Pts/KLoc	0	0
src/common/XmlBindingTools.j	B	108	17 minutes 30 seconds	4 Pts/KLoc	0	0
src/common/ColorProperty.jav	Α	88	7 minutes 30 seconds	0 Pts/KLoc	0	0
src/common/FontProperty.java	Α	84	10 minutes	11 Pts/KLoc	0	0
<pre>src/common/NamedObject.jav</pre>	Α	50	10 minutes	20 Pts/KLoc	0	0
src/common/OptionalDontSho	Α	100	7 minutes 30 seconds	0 Pts/KLoc	0	0
src/common/ThreeCheckBoxPr	Α	116	30 minutes	38 Pts/KLoc	0	0
<pre>src/common/XmlBindingTools.j</pre>	Α	74	20 minutes	33 Pts/KLoc	0	0
src/common/XmlBindingTools.j	Α	83	20 minutes	33 Pts/KLoc	0	0
src/common/XmlBindingTools.j	Α	142	10 minutes	9 Pts/KLoc	0	0
src/common/XmlBindingTools.j	Α	165	20 minutes	22 Pts/KLoc	0	0

Highlights Export Button

Choose the name and folder path of your CSV export file :

💮 Open							×
\leftrightarrow \rightarrow \star \uparrow	🖓 🔜 « Downloads > Highlig	ghtsExportFolder	~ Ō	Search Hi	ghlightsExpor	tFolder	9
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	File <u>n</u> ame: myHighlight	xportFile.csv	~	**			\sim
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Highlights Export File Dialog

You can then open your CSV file and work on your data :

	Α	В	с	D	E	F	G
1	Artefact	Rating	Line	Own Technical Debt	Violations Density	Blocker Issues	Critical Issues
2	src/common/ThreeCheckB	D	129	1 hour 10 minutes	8,922 Pts/KLoc	0	4
3	src/common/UnicodeRead	C	74	27 minutes	9 Pts/KLoc	0	0
4	src/common/OptionalDon	в	119	45 minutes	5 Pts/KLoc	0	0
5	src/common/UnicodeRead	в	64	11 minutes	50 Pts/KLoc	0	0
6	src/common/XmlBindingT	в	108	17 minutes 30 seconds	4 Pts/KLoc	0	0
7	src/common/ColorPropert	Α	88	7 minutes 30 seconds	0 Pts/KLoc	0	0
8	src/common/FontProperty	А	84	10 minutes	11 Pts/KLoc	0	0
9	src/common/NamedObjec	Α	50	10 minutes	20 Pts/KLoc	0	0
10	src/common/OptionalDon	Α	100	7 minutes 30 seconds	0 Pts/KLoc	0	0
11	src/common/ThreeCheckB	Α	116	30 minutes	38 Pts/KLoc	0	0
12	src/common/XmlBindingT	Α	74	20 minutes	33 Pts/KLoc	0	0
13	src/common/XmlBindingT	Α	83	20 minutes	33 Pts/KLoc	0	0
14	src/common/XmlBindingT	Α	142	10 minutes	9 Pts/KLoc	0	0
15	src/common/XmlBindingT	Α	165	20 minutes	22 Pts/KLoc	0	0
Highlights CSV Export File Example							

Index

Α

Action Items view, 15

В

Baseline build, 10

D

Disk Space, <mark>6</mark> Draft build, <mark>10</mark>

F

Findings view, 14

н

Highlights view, 15

J

Java, <mark>6</mark>

Μ

Memory, <mark>6</mark>, 6

Ρ

Prerequisites, <mark>6</mark>

S

Squore Card view, 13